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## CENTRAL INTELLIGENCE AGENCY

WASHINGTON, D.C. 20505

19 April 1982

MEMORANDUM FOR: The Director of Central Intelligence

FROM : John H. Stein  
Deputy Director for Operations

SUBJECT : [ ] Report

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John H. Stein

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## Intelligence Information Special Report

COUNTRY USSR/Poland/Warsaw Pact

DATE OF  
INFO. January 1981

DATE 19 April 1982

SUBJECT

Assignment of Polish Armed Forces  
to Combined Armed Forces in 1981-85

SOURCE Documentary

Summary:

This report is a translation of a Polish Ministry of National Defense document, classified SECRET OF SPECIAL IMPORTANCE, entitled "Protocol on Assignment of PPR Army and Navy Forces to the Combined Armed Forces and Their Development in 1981-85." The main text specifies the forces assigned to the Combined Armed Forces in peacetime and wartime. Development and expansion guidelines of these assigned forces are detailed; the mechanics of supplying the assigned Polish forces are discussed. The need for improving rear services support and maintaining essential materiel reserves is examined, and projects for preparing Polish territory as part of a theater of military operations are described. Five attachments list basic command organs of the Polish Armed Forces, personnel strength and equipment of units assigned to the Combined Armed Forces, materiel reserves, and details of preparatory projects for their potential use in a theater of military operations.

End of Summary

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SECRET OF SPECIAL IMPORTANCEPROTOCOL

On Assignment of PPR Army and Navy Forces to the  
Combined Armed Forces and Their Development in 1981-1985

The Minister of National Defense of the Polish Peoples Republic and the Commander in Chief of the Combined Armed Forces of Warsaw Pact Member States, acting in accordance with article 2 of the "Statute of the Combined Armed Forces and the High Command of the Warsaw Pact Member States (in Peacetime)" and article 7 of the "Statute of the Combined Armed Forces of the Warsaw Pact Member States and Their Command Organs in Wartime" and also guided by resolutions passed at the 23 November 1978 Moscow meeting of the Political Consultative Committee and at the XI Session of Committee of Defense Ministers of the Warsaw Pact Member States (December 1978), and taking into consideration the aggressive tendencies of the NATO military bloc and the continued armament race of the countries of that bloc, consider it essential in the interest of defense of socialist gains and strengthening the military organization of the Warsaw Pact, to adopt the following coordinated proposals regarding assignment of army and navy forces of the Polish Peoples Republic to the Combined Armed Forces and their development in the period 1981-1985.

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## I.

STRENGTH AND COMBAT COMPOSITION OF ARMY AND NAVY FORCES

1. The strength of PPR army and navy forces assigned to the Combined Armed Forces during the period 1981-1985 is established as:

- peacetime	242,000 - 245,000,
- wartime	610,000 - 620,000.

Comment: It is to be noted that the total strength of the Polish Armed Forces during the period 1981-1985 will be:

- peacetime	322,000 - 346,000,*
- wartime	900,000.

2. In wartime the Polish Armed Forces are composed of a front command--on the basis of the central institutions of the Ministry of National Defense, commands of the three combined arms armies--on the basis of military district commands, combined arms army reserve command (without signal and supply units)--on the basis of the Polish Armed Forces General Staff Academy, Front Air Force Command, and the National Air Defense Forces and the Navy Commands.

3. The following basic tactical large units and other units constitute the combat composition of army and navy forces:

a) in the Ground Forces: eight expanded divisions (including three mechanized, five armored); five skeletonized divisions (mechanized); four mechanized reserve divisions expanded for wartime; one airborne brigade; one sea-landing brigade; four operational-tactical missile brigades; one KRUG AA missile brigade, as well as necessary tactical large units and other units within the groupings of front and army elements;

\* Including the internal forces but excluding the Territorial Defense Forces and units maintained outside the military structure.

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b) in National Air Defense [NAD] Forces: three NAD corps (consisting of: four AA missile brigades, one AA missile regiment, a total of 54 AA missile battalions; eight fighter aviation regiments; three radiotechnical brigades, as well as necessary supply and service units and subunits;

c) in the Air Force: one fighter aviation division; two fighter-bomber aviation divisions; two reconnaissance aviation regiments; two combat helicopter regiments; one transport aviation regiment; one liaison-medical aviation regiment (for wartime); one transport helicopter regiment, as well as necessary supply and service units and subunits;

d) in the Navy: three flotillas (including: one submarine division; two missile-torpedo cutter divisions; one chaser division (for wartime--two); one landing craft brigade (three divisions); two minesweeper divisions (for wartime--three); one RUBEZH coast artillery battalion; in naval aviation--one fighter-bomber aviation regiment; one special aviation regiment; one radioelectronic reconnaissance regiment, as well as necessary combat and special support units and craft.

4. A list of basic command organs, tactical large units, and other units of the Polish Armed Forces assigned to the Combined Armed Forces during the period 1981-1985 is presented in attachment 1.

5. The table of organization and equipment of basic tactical large units and other units of the Polish Armed Forces assigned to the Combined Armed Forces for the period 1981-1985 is presented in attachment 2.

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## II.

MAIN GUIDELINES FOR THE DEVELOPMENT OF ARMY AND NAVY FORCES

The following is recognized as essential:

1. In all branches of the armed forces, arms of troops, and special forces, continue to improve the organizational and TOE structure of tactical large units, other units, and command organs on the basis of new military weapons and equipment. Enhance combat capabilities of army and navy forces by providing them with modern military weapons and equipment and introduce more modern command systems.

2. In the Ground Forces increase combat power by equipping them with modern missile systems, tanks, infantry combat vehicles and armored transporters, self-propelled and rocket artillery, antitank guided missile launchers, antiaircraft missile systems, combat support and troop command means.

Combat formations should conform as much as possible to recommended standard groupings of front and army units, and basic tactical large units and command organs--to standard organizations.

Engineer troops should continue to introduce modern engineering equipment.

Chemical troops should have units for detection of nuclear detonations, and subunits for smoke generating and flamethrowing. Expand capabilities of detecting radioactive, chemical, and bacteriological contamination as well as elimination of the effects of enemy use of mass destruction weapons.

Adapt the organizational and TOE structure of signal units to the function for which they are designed in peacetime and wartime communications. Front and army groupings should have at their disposal forces and means of signal units needed to support three signal center positions of the CP or alternate CP and two positions in the rear services CP.

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Improve front and army reconnaissance units and subunits, expand their capabilities for long-range radio and radiotechnical reconnaissance.

3. In the National Air Defense Forces increase the combat readiness of tactical large units and other units, their capabilities in effective combat of existing and potential enemy air attack means by acquisition of new types of aircraft, AA missile systems, radar, and automated command systems.

Continue improvement of mixed groupings of AA missile forces.

Complete formation of the continuous radar field in the AA missile forces operational zone--from 50 to 100 meters, and in the coastal zone from 100 to 200 meters.

4. In the Air Force increase aviation combat capability in the field of air cover and support for the ground forces, air reconnaissance, and transport of personnel, military equipment, and cargo by providing new types of aircraft and improving the command system.

Continue development of ground forces aviation toward increasing the number of modern helicopters and their combat capability.

Complete the forming of the air command system with TOE combat command organs.

5. In the Navy effect further improvements in combat readiness and combat capability by introducing modern ships, cutters, helicopters, and coastal missile systems, in order to fulfill more effectively their mission within the Combined Baltic Fleet.

Expand strike forces in the direction of enhancing their combat capabilities for combatting ship concentrations at sea, their ability to combat effectively small, fast-moving targets, and attacking coastal installations.

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Develop ASW forces with the aim of increasing their operational effectiveness in the field of search, long-term tracking and destruction of modern conventional submarines of the potential enemy, and improve fixed submarine detection means.

Increase the readiness of antimine forces to combat new types of mines and support amphibious landings.

Maintain amphibious forces in a strength to assure debarkation of an amphibious reinforced regiment in a single trip.

6. Increase combat capabilities of radioelectronic warfare forces and means in all branches of the armed forces by further improvement in the operational structure of radioelectronic warfare elements and units, and update their technical equipment.

7. Raise the level of combat and mobilizational readiness of navy forces and means. Improve the system of transition of operational and tactical large units and other units from peacetime to wartime as well as the combat readiness of forces and means on permanent combat alert duty, including duty in hardened command points of operational large units.

Shorten the time required by the army and navy to attain combat readiness, particularly by missile forces, NAD Forces, Air Force, Navy task forces, signal, reconnaissance and radioelectronic warfare units, and command organs.

Continue introduction of automated command systems.

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Continue improving the mobilizational expansion of naval forces. Consider as a major task increasing the reliability of troop mobilization, and guaranteeing mobilization of tactical large units and other units at a given time and in full scale, under complex conditions.

Fulfill programs designed to increase the capability of independent mobilization by tactical large units and other units; firm-up the territorial concept of mobilization allocations; improve the base of mobilizational expansion; utilize more broadly the potential of the national economy in the process of forming transport and other units and subunits assigned to the composition of combat (special) troops and operational rear support units; and increase readiness of mobilization command and control organs.

Improve the quality of training for individuals subject to military service; prepare in proper time and in sufficient number specialists to handle new types of weapons and military equipment. Assure availability of personnel reserves with military training, develop methods for their use as replacements during mobilization and troop combat operations.

8. Improve the army and navy command system. Bring the organizational structure of front and army field commands closer to the structure recommended and maintain operational, tactical large unit and regular unit command points in a standard structure.

Introduce airborne command elements into operational and tactical ground force large units. ✓

In the NAD Forces Command System increase resistance to and defense against jamming. Continue to equip the troops with modern automated command systems.

Organize constant combat alert duty in hardened command points of operational large units assigned to the Combined Armed Forces.

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Increase the effectiveness of utilizing existing army and navy automated command means. With delivery of the PASUV command system by industry of the Socialist countries start equipping one combined arms tactical large unit of the ground forces with this system. Establish experimental areas in the naval automated command system on the basis of existing communications means and technical means of the uniform electronic digital computer system, and complete preparation of priority operational-tactical tasks for the naval automated command system.

9. Improve the rear support system. Increase the rear support capability up to the level of fulfilling the needs of army and navy forces in combat and during operations. Make wider use of modern high-yield technology and container-transport systems for storage and transport of materiel.

## III.

SUPPLYING ARMY AND NAVY FORCES  
WITH ARMAMENT AND MILITARY EQUIPMENT

Devote major attention in connection with army and navy equipment to continuing introduction of up-to-date and modernized armament and military equipment as well as providing a full complement of all types of armament and military equipment primarily to expanded tactical large units and other units.

It has been recognized as advantageous that during the process of supplying army and navy forces with armaments and military equipment the following projects should be implemented:

1. In the Ground Forces:

a) increase the number of operational-tactical missile launchers in the army missile brigades and complete the exchange of old-type launchers for new ones; equip missile units with modern command points;

b) in three armored divisions reequip one tank regiment each with T-72 tanks. Continue supplying the troops with infantry combat vehicles;

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- c) introduce in tactical large units and other artillery units self-propelled guns and artillery rocket launchers;
- d) continue equipping antitank units and subunits with modern ATGM systems;
- e) continue providing tactical large units and other units of the AA Defense Troops with KUB, OSA-AK, and STRELA-type AA missile systems. Radiotechnical units and subunits are to be equipped with P-18, P-19, and other radars; introduce automated command systems;
- f) continue supplying engineer troops with modern high-performance engineer equipment;
- g) equip chemical troops with multipurpose reconnaissance vehicles, high-performance facilities for special measures involving armament and military equipment, and also thermal smoke-generating apparatus. Introduce modern instruments and devices for detection of nuclear detonations. Complete supply of tanks, infantry combat vehicles, and special and transport vehicles with mounted EZCz-type ejector decontamination sets and DK-4 mounted decontamination kits;
- h) equip reconnaissance units and subunits with modern means of observation, radio and radar reconnaissance; introduce mobile reconnaissance points;
- i) organize advance guard subunits: SANI 120-mm mortars; PODNOS and VASILEK 82-mm mortars; METIS portable ATGM; STRELA-10 AA missile systems in order to master these types of weapons and train cadre in advance.

2. In National Air Defense Forces:

- a) supply the AA missile troops with modern VEGA-E (S-200VE) AA missile systems; replace the basic portion of the obsolete DVINA (S-75) missile systems;

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b) in the NAD Forces fighter aviation complete reequipping one fighter aviation regiment with MIG-23MF aircraft, and reequip one fighter aviation regiment with MIG-21bis;

c) equip radiotechnical troops with modern OBORONA-14 radar sets;

d) continue equipping National Air Defense Forces command posts with automated command systems;

e) form an advance guard subunit--one radar company equipped with the long-range NEBO radar set and a low altitude radar set.

3. In the Air Force

a) equip fighter-bomber aviation with modern SU-22M aircraft;

b) introduce in transport aviation modern AN-28 transport aircraft;

c) equip helicopter units and subunits with MI-24D, MI-8, and V-3;

d) introduce VR-3 drone reconnaissance aircraft.

4. In the Navy

a) reinforce naval strike forces by introducing the Proj 677E submarine, Proj 1241RE large missile cutters, and RUBEZH coastal missile launchers;

b) reinforce ASW forces with more modern means of submarine detection and destruction, including Proj 918M cutters and MI-14PL helicopters;

c) modernize minesweeping-minelaying forces by introduction of new Proj 207 minesweepers; consider the possibility of wartime use of national economy fishing and transport vessels as minesweepers and mine barrier breakers;

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d) conduct preparatory work aimed at exchange in the period 1985-1990 of landing craft which have exceeded the established service life;

e) continue introduction of MI-14BT minesweeping helicopters.

5. In signal troops--start equipping signal communications centers at higher and operational command levels with tropospheric communications stations and EKVATOR radio sets.

Extend telegraphic cryptosecurity means to tactical large units and radiotelephonic means in first echelon armies, down to missile regiments and battalions inclusive.

Equip ground forces mobile command points with armored command cars capable of overcoming terrain obstacles and equipped with standard communications means.

In the Navy conclude equipping ships and coastal centers with ultrashortwave cryptosecure communications. ✓

6. In radioelectronic warfare units of the ground forces and navy continue introduction of R-325M2 and PIRAMIDA-1 radio jamming sets and the SPN-40 jamming set for use against airborne radars.

Equip combat aircraft with individual means of defense, type SPS-141.

Plan to equip ships and cutters with passive radio-electronic warfare means for defense against airborne and waterborne observation by enemy radiotechnical means.

7. Implement standardization of armament and military equipment.

8. Allocate weapons and equipment withdrawn during the process of troop reequipment for future use by tactical large units and other units expanding in wartime.

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9. Specific deadlines for delivery of weapons and military equipment for the Polish Armed Forces from Warsaw Pact countries will be established in bilateral government agreements.

10. A list of basic models of weapons and military equipment and quantity to be supplied to the PAF army and navy forces assigned to the Combined Armed Forces up to the end of 1985 is presented in attachment 3.

## IV.

IMPROVING REAR SERVICE SUPPORT SYSTEM FOR  
ARMY AND NAVY FORCES AND MATERIEL RESERVES

1. In order to increase the capability of independent operations assure the maintenance of materiel reserves in the front for 20 to 25 days of combat operations, including mobile reserve supplies (on transport vehicles)--for nine days (with the troops--for five days, in army bases--for two days, in front bases--for two days).

Increase the loading capacity of motor vehicle transport by 6,000-7,000 tons for each army, and 8,000-9,000 tons for each front army (including the front air forces).

Maintain in NAD Forces necessary materiel reserves close to combat units in order to increase their self-sufficiency.

In the Air Force maintain most materiel reserves in supply bases, and technical capabilities of air units at levels permitting support of combat aviation during the entire period of front operations. Improve rear support of ground forces aviation.

In the Navy continue creating conditions for all types of support at maneuver basing points, and for dispersal area ship repairs. Increase capabilities of mobile shore bases, maintenance-repair groups, and seagoing units engaged in reconstituting combat capabilities and furnishing naval forces with all types of supplies at sea and in dispersal areas.

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Increase the capabilities of auxiliary surface ships by introducing modern multipurpose vessels into the Navy.

2. Continue stockpiling materiel reserves, bringing them to a level by the end of 1985 which would basically ensure conduct of combat operations by troops and naval forces for a period of 25 to 90 days (ammunition for ground forces--25 to 60 days; for Air Forces--20 to 50 days; for NAD Forces--30 to 55 days; for the Navy--45 to 90 days; fuel and food--90 days). Special attention should be given to stockpiling of missiles and ammunition for new types of weapons.

Attachment 4 details the materiel reserves established in the Polish Armed Forces for army and navy forces assigned to the Combined Armed Forces during 1981-1985.

3. In order to support the Combined Armed Forces maintain in Combined Command reserves 60,000 tons of fuel, including:

- from PPR resources--30,000 tons (10,000 tons each of motor vehicle gasoline, aviation fuel, and diesel oil);
- from USSR resources--30,000 tons (11,000 tons of gasoline and 19,000 tons of diesel oil).

For each fuel type from Polish resources maintain motor oils: motor vehicles--four percent, tanks--seven percent; high compression motors--two percent (from 10,000 tons), aviation--0.1 percent.

The POL reserves of the Combined Command should be renewed from Polish resources through the Polish Armed Forces, and from Soviet resources through the Soviet Army. Tanks and technical equipment for storing POL from Soviet resources will be assigned from the Soviet Army in accordance with a separate agreement.

Expenses connected with maintenance of above-mentioned Combined Command stocks from Soviet resources are accounted for in accordance with "Statutes (guidelines) on the Combined Command Budget of the Warsaw Pact Member States."

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Stocks of POL allocated as Combined Command reserves from Polish resources are compensated for the Polish Armed Forces by the Combined Armed Forces Command on the territory of the German Democratic Republic.

4. Expand hospital bed accommodations up to 15 to 20 percent of the total number of the PPR troops assigned to the Combined Armed Forces in wartime (including 65,000 beds for hospital field bases) and of blood donor nets (points) in order to enable mass preparation of blood in wartime providing no less than 0.25 liters for each wounded (sick) member of the armed forces, assuming this to be 25 percent of the total number of armed forces. Proceed to stockpile stored blood, blood preparations, and blood substitutes in order to satisfy total PAF needs.

Also, in order to provide medical support for allied forces, preplan the assignment during M+2 to M+4 of hospitals with 25,000 beds for short-term use and of four military hospital trains. Arrange for admission, treatment, and all-around medical care of wounded and sick in the assigned hospitals.

A total of 5,000 hospital beds in the GDR are being assigned to the PAF from Combined Command reserves.

Ensure the capability of single-trip evacuation by front and army motor vehicle transport of no less than 14,500-15,000 wounded and sick.

5. Continue efforts toward further centralization and creation of a reliable rear services command system.

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V.

PREPARATION OF PPR TERRITORY AS PART  
OF THE THEATER OF MILITARY OPERATIONS.

1. Continue projects aimed at establishment of new and improvement of existing hardened command points, signal centers of the basic communications net consisting of multichannel axial and lateral lines. The base of the net should be the original net of the interconnected automated integrated communications system (VAKSS) now in the process of installation.

2. Prepare transport by increasing the load capacity along predetermined transportation routes, strengthening the viability and resilience of transport, increasing production capacity and readiness of forces and means assigned to provide technical protection for the most important railway lines, highways, and bridges, as well as waterways.

3. Continue construction of shelters for combat aircraft and personnel at permanent base airfields. Improve the aviation basing system of combat aviation through class upgrading and reconstruction of existing airfields.

Continue to expand positions of the AA missile troops and radiotechnical troops.

4. Improve the system of permanent and dispersed basing of naval forces in order to improve the defense and protection of combat ships and to create conditions for their rapid departure from bases and for their deployment.

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5. Improve conditions for storing reserve supplies. Establish bases and depots for mass issue of materiel supplies.

6. Improve geodetic and topographic support of the national territory.

7. Attachment 5 provides a list of basic projects for preparation of PPR territory as part of the theater of military operations during the period 1981-1985.

#### VI.

1. Development of branches of the armed forces, arms of troops, and special forces assigned to the Combined Armed Forces, their weapons and military equipment, stockpiling materiel reserves, buildup of the national territory as part of the theater of military operations, will be implemented in accordance with the plan drafted by the PPR Ministry of National Defense so calculated that all projects encompassed by this Protocol would be implemented by the end of 1985.

2. This Protocol may be defined more precisely in case of necessity, with agreement of the signatory parties.

3. The parties consider it desirable to draft in 1984-1985 a proposal dealing with development of troops and naval forces assigned by the PPR to the combined Armed Forces for the period 1986-1990.

4. This Protocol will be presented by the PPR Minister of National Defense for approval by the Government of the Polish Peoples Republic and will come into force on the day it is approved.

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Prepared in Warsaw....January 1981 in two copies, each in the Polish and Russian languages with each being equally authoritative.

Commander in Chief, Combined  
Armed Forces of Warsaw  
Pact Member States

Minister of National Defense  
of the Polish Peoples Republic

Marshal of the Soviet Union  
V. KULIKOV

General of the Army  
W. JARUZELSKI

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SECRET OF SPECIAL IMPORTANCE

Attachment 1

LIST  
of Basic Command Organs, Tactical Large Units and  
Other Units of the Polish Armed Forces Assigned to  
the Combined Armed Forces During the Period 1981-1985

Tactical large units and other units	for peacetime	for wartime	Readiness deadline
<u>I. Ground Forces</u>			
1	2	3	4
Military district commands	3	-	AS*
<u>Front commands</u>	-	1	1 ech**-AS 2 ech-M1***
Combined arms army commands	-	3	1 ech-AS 2 ech-M1
Combined arms army reserve commands	-	1	M2
<u>Combined arms tac large units and other units</u>			
Mechanized divisions	8	8	3-AS 3-M2 2-M3

[\* - Alert status

\*\* - 1st echelon

\*\*\* - First day of mobilization.]

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1	2	3	4
Armored divisions	5	5	AS
Reserve mechanized divisions	-	4	2-M4 2-M5-6
Airborne brigades	1	1	AS 6
Sea-landing brigades	1	1	AS
<u>Front Units</u>			
<u>Rocket troops and artillery</u>			
Operational-tactical missile brigades	1	1	AS
Artillery brigades	2	4	2-M2 2-M3
AT artillery regt	1	2	1-M1, 1-M2
<u>Antiaircraft defense troops</u>			
KRUG AA missile brigades	1	1	AS
Radiotechnical brigades	1 regt	1	1 ech-AS 2 ech-M1
<u>Engineer troops</u>			
Combat engineer brigades	1	1	M-2

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1	2	3	4
Road-bridge regiments	1 bn*	1	M-2
Ponton regiments	3 bn*	3	2-M1 1-M1
Engineer preparation regt	-	1	M2
Camouflage battalions	-	1	M2
CP engr preparation bn	-	1	M2
Water procurement and purification bn	-	1	M2
<u>Chemical troops</u>			
Chemical brigades	1 regt	1	M2
Nuclear detonation detection bn	2 co	1	M2
Rocket flamethrower co	1	1	M1
Contamination-evaluation- analysis stations	1	1	M1
Smokescreen company	1	1	M1
<u>Signal troops</u>			
Signal brigades	1	1	1 ech-AS 2 ech-M1
Radiorelay-cable bde (consisting of five bn)	1	1	1 ech-AS 2 ech-M2

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\* In combat engineer brigade.

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1	2	3	4
HF radiorelay-cable bn*	-	1	M2
Radiorelay-cable bn (for <u>front</u> op-tac brigade)	1 co	1	M1
Military postal centers	-	1	M1
<u>Reconnaissance units</u>			
Special recon bn	1	1	1 ech-AS 2 ech-M1
Radio recon regt	1	1	M1
Radar systems recon regt	1	1	M2
<u>Missile-technical units</u>			
Missile-technical field bases	1	1	AS
Missile delivery bn	2	2	1-AS 1-M1
<u>Radioelectronic warfare units</u>			
Radio jamming regt	1	1	M1
Radar jamming regt	1	1	M1
<u>Topographic units</u>			
Topogeodetic units	1	1	M2
Photogrammetric- cartographic units	-	1	M2

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\* In radiorelay-cable brigade.

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1	2	3	4
<u>Rear Service tactical large units and other units</u>			
Materiel support bde	-	2	M2
<u>Front</u> rear service bases	-	1	M2
Transport brigades	-	2	M2
Rocket fuel delivery bn	1	1	1 ech-AS 2 ech-M1
Long-distance pipeline bn	1	1	M2
Railway brigades	-	2	1-M2 1-M3
Pipeline crossing co	2	2	M2
Bridge brigades	-	1	M2
Road exploitation bde	-	1	M3
Maintenance base HQ	-	3	M2
Tracked vehicle maint bn	-	5	M2
Tracked veh assemblies maint battalions	-	3	M3
Wheeled veh maint bn	-	9	M2
Wheeled veh assemblies maint battalions	-	3	M3
Equipment recovery bn	-	3	M2
Ordinance and electronic equip maint battalions	-	3	M2

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1	2	3	4
Radioelectronic equip maint battalions	-	1	M2
Engineer equip maint bn	-	3	M3
Communications equip maint battalion	-	2	M2
QM equip maint bn	-	1	M2
Chemical equip maint bn	-	3	M2
<u>Front</u> hospital base comd	-	10	6-M1 4-M2
Field hospitals, 1,000-bed	-	65	M1-3
Military hospital trains	-	4	M6-M7
Medical reinforcement bn	-	3	M2
Epidemic control bn	-	1	M2
Medical bus bn	-	1	M2
Ambulance companies	-	4	1-M1 3-M2
Contam eval-analysis sta of rear svc CP	-	1	M1
Signal regt of rear services CP	1	1	1 ech-AS 2 ech-M1
Rear chemical bn	-	1	M1

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1	2	3	4
<u>Army Units</u>			
<u>Rocket and artillery troops</u>			
Op-tac missile brigades	3	3	2-AS 1-1 ech-AS 2 ech-M1
<u>Artillery brigades</u>	2 1 regt	3	M2
AT artillery regt	2 1 bn	3	2-M1 1-M2
Artillery	-	4	M3
Artillery recon bn	2	2	M1
<u>Antiaircraft defense troops</u>			
KUB AA missile regt	3	3	AS
Radiotechnical bn	3	3	1 ech-AS 2 ech-M1
<u>Engineer troops</u>			
Combat engineer bde	3	3	2-M1 1-M2

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1	2	3	4
Road-bridge regt	3 bn*	3	M2
Ponton regiments	2 1 bn*	3	2-M1 1-M2
Assault crossing bn	2 co*	3	2-M1 1-M2
<u>Chemical troops</u>			
Chemical brigades	2 regt	2	M2
Chemical regiments	1	1	M2
Contam eval-anal sta	3	3	M1
<u>Signal troops</u>			
Signal regiments	3	3	1 ech-AS 2 ech-M1
Radiorelay-cable regt	2	3	2-1 ech-AS 2 ech-M1 1-M1
HF radiorelay-cable bn**	-	3	M2
Radiorelay-cable bn** (for army)	-	3	2-M1 1-M2
Radiorelay-cable co (for army op-tac missile bde)	3	3	AS
Military postal centers	-	3	M1

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\* In combat engineer brigades.

\*\* In radiorelay-cable regiments.

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1	2	3	4
<u>Reconnaissance units</u>			
Special recon bn	2 co	2	1 ech-AS 2 ech-M1
Special recon co	1	1	1 ech-AS 2 ech-M1
Radioelectronic recon bn	2	3	2-AS 1-M1
<u>Missile-technical units</u>			
Missile-tech field bases	3	3	2-AS 1-1 ech-AS 2 ech-M1
AA msl-tech field bases	1	2	1-1 ech-AS 2 ech-M1 1 M1
<u>Radioelectronic warfare units</u>			
Radio jamming bn*	2	2	M1
Radar jamming bn*	2	2	M1

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\* Battalions are included in (front) jamming regiments.

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1	2	3	4
<u>Topographic units</u>			
Topographic units	2	3	2-M1 1-M2
<u>Tactical large units and rear services units</u>			
Materiel support bde	-	3	M1-M2
Road-exploitation bn	2 co	3	M2
Maintenance base HQ	-	3	2-M1 1-M2
Tracked veh maint bn	-	3	M2
Wheeled veh maint bn	-	3	M2
Equipment recovery bn	-	3	M2
Armt and electronic equip maint bn	-	3	M2
Engr equip maint bn	-	3	M2
Comm equip maint co	-	3	M2
QM equip maint co	-	3	M2
Medical reinforcement bn	-	13	M1-M2
Medical support units	-	6	M1-M2
Epidemic control bn	-	3	M2
Ambulance companies	-	5	3-M1 2-M2

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1	2	3	4
Contam eval-anal sta of rear svc CP*	-	3	M1
Rear svc CP signal bn	3 co**	3	M1
Rear svc chemical bn	-	3	M1
<b>II. NATIONAL AIR DEFENSE FORCES</b>			
NAD Forces Comd	1	1	AS
NAD Corps Comd	3	3	AS
AA missile bde	4	4	AS
AA missile regt	1	1	AS
AA missile bn***	54	54	50-AS 4-M1
Fighter aviation regt	8	8	AS
Radiotechnical bde	3	3	AS
Radioelectronic jamming regiments	1	1	M1
Radar jamming bn	1	1	M1
Radioelectronic recon regt	1	1	1 ech-AS 2 ech-M1

\* Contam eval-anal groups in army contam eval-anal stations.

\*\* Within army signal regiments.

\*\*\* In AA msl bde and regt.

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1	2	3	4
III. <u>AIR FORCE</u>			
Air Force Command	1	-	AS
<u>Front aviation</u>			
<u>Front</u> Air Force comd	-	1	1 ech-AS 2 ech-M1
Fighter aviation div	1	1	AS
Fighter-bomber avn div	2	2	AS
Fighter aviation regt*	3	3	AS
Fighter-bomber avn regt**	6	6	AS
Separate recon avn regt	2	2	AS
Transport aviation regt	1	1	1 ech-AS 2 ech-M1
Liaison-medical avn regt	-	1	M2
Signal regiments	1	1	1 ech-AS 2 ech-M1
Transport hel regt	1	1	AS

\* In ftr avn div: in each ftr avn regt one spt bn at M1 readiness.

\*\* In ftr-bmr avn div: in each ftr-bmr avn regt one spt bn at M1 readiness.

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1	2	3	4
Liaison avn sqdn*	1	1	M1
Drone recon acft sqdn	1	1	AS
Contam eval-anal sta	1	1	M1
<u>Army aviation</u>			
Combat hel regt	2	2	AS
Liaison avn sqdn**	2	3	2-AS 1-M1
Tactical large unit hel sqdn	8	10	8-AS 2-M1
<u>Air Force tactical large units and rear services units</u>			
Materiel support bde	-	2	M1-M2
Medical reinf bn	-	3	M1
Ambulance companies	-	1	M1
Airfield construction bn	2	4	2-M1 2-M3
Ground equip maint bn	-	2	M2

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\* In squadron provide two contam recon hel flights.

\*\* In squadron provide one contam recon hel flight.

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1	2	3	4
IV. <u>NAVY</u>			
Navy commands	1	1	AS
Naval flotilla comd	1	1	AS
Coastal defense flotilla comd	2	2	1 ech-AS 2 ech-M1
Landing ship bde	1	1	AS
Submarine divisions	1	1	AS
Missile-torpedo cutter divisions	<u>2</u>	<u>2</u>	<u>AS</u>
Chaser divisions	1	2	1-AS 1-M1
Minesweeper divisions	2	3	2-AS 1-M10
RUBEZH coast arty div	1	1	AS
Fighter-bomber avn regt	1	1	AS
Recon avn sqdn	1	1	AS
Special aviation regt	1	1	AS
Radioelectronic recon regiments	1	1	1 ech-AS 2 ech-M2
Radio jamming bn	1*	1	M1
Signal regiments	1	1	M1

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\* Battalion is part of the navy radioelectronic recon regt.

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COMMENT: The formation of the necessary support and service units and subunits, not listed in the above list, is determined by the Polish Armed Forces General Staff as the need arises.

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COMBINED ARMED FORCES OF  
WARSAW PACT MEMBER STATES,

General of the Army  
A. GRIBKOV

12 January 1981

CHIEF OF GENERAL STAFF,  
POLISH ARMED FORCES,

General of Arms  
F. SIWICKI

12 January 1981

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Attachment 2

LIST  
of Personnel Strength, Weapons, and Military  
 Equipment of Basic Tactical Large Units and Other  
 Units of the Polish Armed Forces Assigned to the  
 Combined Armed Forces During 1981-1985.

Ground Forces

1. Operational-tactical missile tactical large units are to be composed of: front missile brigade--eight launchers (two battalions); army missile brigades: two with eight each and one with four launchers (two battalions each).

2. Mechanized and armored divisions are to be composed of:

a) in expanded 4th, 8th, and 12th Mechanized Divisions--12,400 men (in peacetime--9,000-9,500); LUNA-M 1chr-4; tanks--201; field arty guns and mortars--168 (152-mm how--<sup>12?</sup>2), GVOZDIKA 122-mm self-propelled how--12, 122-mm how--72, BM-21 GRAD rocket systems--18, 120-mm mortars--54; ATGM--63 (MALYUTKA-P 1chr--27, FAGOT portable 1chr--36); 85-mm AT guns--12; SPG-9M heavy AT gren 1chr--18; OSA-AK AA msI 1chr--16; STRELA-1M AA msI 1chr: in 4th Mech Div--8, in 12th Mech Div--4; STRELA-10 in 8th Mech Div--4; STRELA-2M systems--40; ZU-23-2 AA guns--44; WBP-1 inf cbt veh--103; armd transporters--for 100 percent of pers, in accordance with TOE; hel--8;

b) in skeletonized 1st, 2d, 3d, 9th and 15th Mechanized Divisions--12,000 men (in peacetime: in 1st, 2d, 15th Mech Divs--3,000-3,500; in 3d and 9th Mech Divs--up to 2,500); LUNA-M 1chr: in 1st, 3d and 9th Mech Divs--2 each, in 2d and 15th Mech Divs--three each; tanks--201; field arty guns and mortars--146-152 (152-mm how: in 1st and 2d Mech Divs--12 each; GVOZDIKA 122-mm SP how--six in 1st Mech Div; 122-mm how: in 3d, 9th, and 15th Mech Divs--90 each; in 1st Mech Div--66, in 2d Mech Div--72; GRAD BM-21 1chr: in 2d and 15th Mech Div--eight each; BM-14 1chr:

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in 1st, 3d, and 9th Mech Div--eight each; 120-mm mortars--54 in each division ); ATGM 1chr: 1st Mech Div--34, in 2d and 15th--36 each (MALYUTKA-1 1chr--18 each; man-transportable MALYUTKA--16-18 each); 85-mm AT guns: in 1st, 2d, and 15th Mech Divs--18 each, in 3d and 9th Mech Div--63 each; SPG-9M heavy AT guns--18 each; STRELA-1M AA msl 1chr--two (in 1st Mech Div); STRELA-2M systems: in 1st, 2d, and 15th Mech Divs--40 each; ZSU-23-2 AA guns: four (in 1st Mech Div); ZU-23-2 AA guns: in 1st Mech Div--38, in 2d and 15th Mech Div--44 each; ZSU-57-2 SP AA guns: in 3d and 9th Mech Divs--16 each; 7-mm AA guns--36; WBP-1 inf cbt veh--41 (in 1st Mech Div) and 10 each in 2d and 15th Mech Divs; armd transporters (cars in 3d and 9th Mech Divs)--for 100 percent of pers, in accordance with TOE; hel--eight (in 2d and 15th Mech Div);

c) in 26th and 28th Reserve Mech Div, expanded in accordance with the mobilizational plan for wartime--11,000 men; T-34 tanks--129; field arty guns and mortars--134 (122-mm how--72, BM-14 1chr--8, 120-mm mortars--54); 85-mm AT guns--63; SPG-9M heavy AT gren 1chr--18; 57-mm AA guns--36.

Additional formation is planned of two reserve mechanized divisions of 10,000 men each with weapons and military equipment obtained as the result of reequipment of expanded and skeletonized tactical large units and other units;

d) in 5th, 10th, 11th, 16th, and 20th Armd Div--10,000 men (in peacetime--7,200-8,000); LUNA-M 1chr: in 5th and 20th Armd Div--four each, in 10th, 11th, and 16th Armd three each; tanks: in 10th and 16th Armd Div--283 each, in 5th, 11th, and 20th Armd Div--296 each, including 94 each of T-72 tanks; field arty guns and mortars--84 (GVOZDIKA 122-mm SP how: in 11th and 20th Armd Div--48 each, in 5th, 10th, and 16th Armd Div--12 each; 122-mm how: in 5th, 10th, and 16th Armd Div--36 each; BM-21 GRAD rocket systems--18; 120-mm mortars--18); MALYUTKA-P 1chr--six; KUB AA msl 1chr--20; STRELA-2M systems--16; ZSU-23-4 SHILKA SP AA guns--16; ZU-23-2 AA guns--8; WBP-1 inf cbt veh--103; hel--8.

The tank regiments of the 5th, 11th, and 20th Armd Div are to be restructured into battalions.

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3. Expanded 6th Airborne Brigade--4,500 men (in peacetime--3,000-3,500); WP-8 rkt arty lchr--12; 120-mm mortars--27; 82-mm mortars--40; MALYUTKA man-portable ATGM systems--36 and METIS systems--six; SPG-9D heavy AT gren lchr--45; STRELA-2M systems--34; ZU-23-2 AA guns--32.

4. Expanded 7th Sea-landing Brigade--5,200 men (in peacetime--up to 4,000 men); LUNA-M lchr--two; T-54 tanks--40; PT-76 amph tanks--92; BM-21 GRAD arty lchr--8; 120-mm mortars--18; 82-mm mortars--45; MALYUTKA-P ATGM lchr--18; SPG-9M heavy AT gren lchr--30; STRELA-2M systems--49; ZU-23-2 AA guns--26; TOPAS armd transporters--96.

5. Artillery tactical large units and other units are to be composed of:

- front gun-how brigade--90 guns and lchr (five bns with 18 guns and lchr each: four 152-mm gun how [bn] and one BM-21 GRAD);

- front how bde--72 guns (four bn with 18 guns each: two 152-mm bn and two 122-mm how bn);

- two front how bde--72 guns each (four bn with 18 122-mm how each);

- two army arty bde--90 guns and lchr each (each with five bn of which each has 18 guns and lchr: two 152-mm gun-how bn, one 152-mm DANA SP bn, one 122-mm bn, and one BM-21 GRAD bn);

- army arty bde--72 guns and lchr (four bn with 18 guns and lchr each: two 152-mm gun-how bn, one 122-mm gun bn, and one BM-14 bn);

- two front AT arty regt--54 85-mm AT guns each;

- three army AT arty regt--54 85-mm AT guns each;

- four bn with 18 122-mm how each.

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6. Ground forces AA defense tactical large units and other units are to be composed of:

- front KRUG AA msl bde--27 lchr;
- three army KUB AA msl regt--20 lchr each;
- subunits for direct front and army command protection--six STRELA-2M (STRELA-3) systems each;
- front radiotech bde consisting of three radiotech bn of four radiotech co each (in peacetime--regt consisting of six to eight co);
- three army radiotech bn--each consisting of four co.

#### NATIONAL AIR DEFENSE FORCES

National Air Defense Forces are to consist of:

- four bde and one regt of AA msl, total of 54 AA msl bn (VEGA-E -3, VOLKHOV--24, NEVA--23, DVINA--4);
- eight fighter aviation regiments: one--36 MIG-23 MG aircraft, two--36 MIG-21bis each, five--36 MIG-21 (PFM, M, SPS) each.

#### AIR FORCE

The Air Force is to consist of:

1. Front Air Force components:

- fighter aviation division consisting of three regt--36 MIG-21 (PF, PFM, M) acft in each regt;
- two fighter-bomber avn div--each consisting of three regt (two--30 SU-22M and six SU-22U acft each, one--30 SU-7B and three--36 MIG-17 each);
- two recon avn regt: one--32 MIG-21R and one--24 SU-20R;

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- transport avn regt--30 acft;
  - liaison-medical avn regt--12 MI-2 hel and 20 AN-2 acft (for wartime);
  - transport hel regt (36 MI-8T);
  - mixed comd and recon sqdn (five AN-2 and 14 MI-2 hel);
  - WR-3 recon drone sqdn (12 BSR).
2. Ground forces avn component:
- two cbt hel regt--48 hel in each regt (16 MI-24D and 32 MI-2, W-3);
  - three mixed comd and recon sqdn (10-15 hel and acft, including an air comd element).

NAVYThe Navy is to consist of:

1. Three flotillas consisting of:
- submarine division--three-four sub (Proj 877E--one and Proj 613--two or three);
  - landing craft bde consisting of three div (Proj 770 and 771 medium landing ships--22, Proj 709 and 719 landing cutters--18 Proj 776 command ship--one);
  - two missile-torpedo cutter div (Proj 205 large missile cutters--11, Proj 1241RE missile cutters--two, Proj 664 torpedo cutters--four);
  - two divisions (in peacetime--one) of ASW ships: Proj 912M ASW ships--eight, and of Proj 918M ASW cutters--10;

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- three divisions (in peacetime--two) of minesweepers: Proj 206 minesweepers--12, Proj 207 minesweepers--four, Proj 254 minesweepers--four, Central Ship Designing Office minesweeping cutters--24;

- Proj 56AE destroyer.

2. Naval aviation:

- fighter-bomber avn regt--20 SU-22M and 4 SU-22U acft;

- recon avn sqdn--10 MIG-15A;

- special avn regt--28 hel (MI-14PL--12, MI-14BT--12, and MI-14PS--4).

3. One RUBEZH coast artillery battalion--four launchers.

CHIEF OF STAFF,  
COMBINED ARMED FORCES OF  
WARSAW PACT MEMBER STATES

CHIEF OF GENERAL STAFF,  
POLISH ARMED FORCES

General of the Army  
A. GRIBKOV

General of Arms  
F. SIWICKI

12 January 1981

12 January 1981

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Attachment 3

LIST  
of Basic Models of Weapons and Military Equipment  
and Quantity to be Supplied to PAF Army and Navy Forces  
Assigned to the Combined Armed Forces up to the End of 1985.

Weapons and military equipment	Adjusted amounts up to end of 1985	Amount of weapons in tactical large units and other units	
		At constant readiness	Expanding in accordance with mob plan
1	2	3	4
<u>I. Ground Forces Weapons and Military Equipment</u>			
<u>1. Missile ordinance</u>			
R-17 op-tac ms1 systems 1chr	28	28	-
LUNA-M tac ms1 systems 1chr	43	31	12
Mobile strike control points sys	6	6	-

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1	2	3	4
<u>2. Armored equipment</u>			
Medium tanks	3,369	2,097	1,272
incl:			
T-72	282	282	-
T-55, T-55A, T-54A	2,657	1,815	842
T-34	430	-	430
PT-76 amph tanks	112	92	20
WBP-1 inf cbt veh	885	824	61
Armd pers carriers	2,069	1,102	967
Amph armd recon veh	696	416	280
<u>3. Field artillery and mortars</u>			
Total (guns, lchr, mortars) incl:	2,748	1,074	1,674
- SP and towed guns	1,668	528	1,140
incl:			
DANA 152-mm SP how	36	-	36
ML-20 152-mm gun-how	216	-	216
D-1 152-mm how	60	36	24
GVOZDIKA 122-mm SP how	174	168	6
A-19 122-mm guns	54	-	54
M-30 122-mm how	1,128	324	804

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1	2	3	4
- artillery launchers	292	164	128
incl:			
BM-21 GRAD	222	152	70
BM-14	58	-	58
WP-8	12	12	-
- mortars	788	382	406
incl:			
120-mm	672	294	378
SANI 120-mm	3	3	-
82-mm	106	78	28
VASILEK 82-mm	4	4	-
PODNOS 82-mm	3	3	-
MASHINA arty fire direction systems	1	1	-
<u>4. Antitank means</u>			
Total ATGM, guns, 1chr	1,312	441	871
incl:			
- ATGM systems	385	279	106
incl:			
MALYUTKA-P      1chr	183	129	54
METIS            1chr	6	6	-
FAGOT            1chr	108	108	-
MALYUTKA,        1chr manportable	88	36	52
- PD-44 85-mm AT guns	672	36	636

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1	2	3	4
- SPG-9M heavy AT rcl gun	255	129	126
<u>5. Weapons and equipment of AA Defense Ground Forces</u>			
AA systems			
KRUG            btry/1chr	9/27	9/27	-
KUB            btry/1chr	40/160	40/160	-
OSA-AK        btry/1chr	12/48	12/48	-
STRELA-1M     1chr	14	12	2
STRELA-10     1chr	4	4	
STRELA-2M, 3   systems	427*	283	144
AA guns (S-60 57-mm)	336**	-	336
AA guns	472	310	162
incl:			
ZSU-57-2 57-mm	32	-	32
ZSU-23-4 SHILKA 23-mm	84	80	4
ZU-23-2 23-mm	356	230	126
KRAB fire control systems	9	9	-
Radar sets	105	86	19
incl:			
P-18, P-12	20	20	-
P-19, P-15, NUR-21	38	26	12

\* Additional 180 in NAD Forces and 140 in Navy.

\*\* Additional 72 in Navy.

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1	2	3	4
JAWOR, NUR-3, P-40	47	40	7
Radar height finder sets	12	10	2
6. <u>Engineer equipment</u>			
PP-64 ponton-bridge parks sets	47	8	39
Crossing-landing means sets	524	159	365
incl: GSP ferries	99	24	75
PTS-M (PTG) amph transporters	425	135	290
SMT-1 truck-mtd bridges	417	158	259
BLG-67 tank-mtd bridges	198	144	54
Earth-moving and road machinery	300	118	182
incl: BAT-DOK bulldozers	199	87	112
BTM trench diggers	49	-	49
MDK-2, 3 ditch diggers	52	31	21
KMT-4, 5, 6 minesweepers	372	342	30
PMR-3 minelayers	126	27	99
7. <u>Chemical equip</u>			
BRDM-2RKh armd recon veh	376	198	178

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1	2	3	4
High-yield special measures devices	14	-	14
8. <u>Communications means</u>			
R-110 transmitters and receivers of General Staff network	49	30	19
Radio sets of <u>front</u> and army net	2,085	756	1,329
incl:			
EKVATOR	5	-	5
R-140	645	296	349
R-137	337	179	158
R-118, R-102	1,098	281	817
Comd cars and misc radios	880	619	261
incl:			
Comd cars on SKOT, TOPAS, and BRDM transporters	595	450	145
RD-115 radios	285	169	116
TORF R-412 tropospheric radiorelay sets	8	-	8
Radiorelay sets	847	252	595
incl:			
R-404	224	27	197
R-409	238	40	198
R-405, RWL-1	385	185	200

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1	2	3	4
Comm security sets	745	573	172
incl:			
T-206	134	80	54
T-217	345	290	55
T-219	226	190	36
T-207M	40	13	27
<u>9. Radio and radio-technical recon means</u>			
Radio direction sets finders	84	48	36
incl:			
R-363	44	32	12
R-359	40	16	24
Radio recon sets	17	10	7
incl:			
R-343	9	6	3
R-344	6	4	2
GREBESHOK-5	1	-	1
GREBESHOK-6	1	-	1
Radiotech recon sets	49	18	31
incl:			
SDR-2MP	6	-	6
RPS-5, RPS-6	14	8	6
POST-3M	25	10	15
RAMONA	4	-	4

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1	2	3	4
<u>10. Radioelectronic warfare means</u>			
Radio jamming sets	111	-	111
incl:			
R-325M, R-325M2	38	-	38
R-378	24	-	24
R-330A	6	-	6
R-834P	33	-	33
PIRAM1DA-1	10	-	10
Radar jamming sets	82	-	82
incl:			
SPO-8M	16	-	16
SPO-8	46	-	46
SPN-40	10	-	10
SPB-7	10	-	10
R-388 radios for jamming radionav systems	5	-	5
<u>II. NATIONAL AIR DEFENSE FORCES WEAPONS AND EQUIPMENT</u>			
Fighter interceptors	288	288	-
incl:			
MIG-23MF, ML	36	36	-
MIG-21bis	72	72	-
MIG-21MF, PFM	180	180	-

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1	2	3	4
NAD msl sys, bn	54	54	-
incl:			
VEGA-E	3	3	-
VOLKHOV	24	24	-
NEVA	23	23	-
DVINA	4	4	-
Automated command sys:			
VEKTOR-2V sets	3	3	-
ALMAZ-2 sets	1	1	-
ALMAZ-3 sets	6	6	-
CYBER sets	2	2	-
DUNAJEC sets	36	36	-
VOZDUKH-1M:			
Components:			
WP-01M, WP-02M	11	11	-
WP-04M	1	1	-
WS-11M	1	1	-
WP-15M	1	1	-
Radar target detection and guidance sets:	270	270	-
incl:			
KABINA-66	3	3	-
OBORONA-14	7	7	-
NEBO	1	1	-

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1	2	3	4
JAWOR-M2 (JAWOR)	65	65	-
NAREW	36	36	-
P-12	6	6	-
P-14	9	9	-
P-15	3	3	-
P-18	64	64	-
P-37	37	37	-
P-40	6	6	-
NUR-2 and 3	33	33	-
Radar height finders	164	164	-
III. <u>AIR FORCE WEAPONS AND EQUIPMENT</u>			
Combat aircraft total	374	374	-
incl:			
Ftr interceptors:	108	108	-
MIG-21PF, PFM, M			
Fighter-bmrs:	210	210	-
incl:			
SU-22M	60	60	-
SU-22U	12	12	-
MIG-17	108	108	-
SU-7B	30	30	-
Recon aircraft	56	56	-
incl:			
SU-20R	24	24	-

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1	2	3	4
MIG-21R	32	32	-
Helicopters	263	231	32
incl:			
M1-24D	32	32	-
M1-8, 8TW	39	39	-
M1-2, V-3	192	160	32
WR-3 drone tac air recon systems	1	1	-
IV. <u>NAVY WEAPONS AND EQUIPMENT</u>			
Total combat ships	126-127	92-93	34
incl:			
- attack ships      units	21-22	21-22	-
incl:			
Proj 877E sub	1	1	-
Proj 613 sub	2-3	2-3	-
Proj 56AE destroyers	1	1	
Proj 1241RE msl cutters	2	2	-
Proj 205 msl cutters	11	11	-
Proj 664 torpedo boats	4	4	-
- ASW ships      units	18	8	10
incl:			
Small ASW ships	8	8	-
Proj 912M			
Proj 918M ASW boats	10	-	10

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1	2	3	4
- Minesweepers units	44	20	24
incl:			
Proj 206F base minesweepers	12	12	-
Proj 207 inshore minesweepers	4	4	-
Proj 254K high seas minesweepers	4	4	-
Proj CBKO minesweepers	24	-	24
Proj 863 recon boats	2	2	-
Proj 776 comd ship	1	1	-
- Landing Ships units	40	40	-
incl:			
Medium ldg ships, Proj 770	11	11	-
Medium ldg ships, Proj 771	11	11	-
Proj 709 ldg cutters	15	15	-
Proj 719 ldg cutters	3	3	-
Navy aviation			
Combat aircraft	34	34	-
incl:			
- ftr-bmr: SU-22M	20	20	-
SU-22U	4	4	-
- MIG-15A recon acft	10	10	-

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1	2	3	4
Helicopters:	28	28	-
incl:			
MI-14PL	12	12	-
MI-14BT	12	12	-
MI-14PS	4	4	-
RUBEZH coastal msl systems, lchr	4	4	-

COMMENT: In 1983 precise figures are to be provided on SU-22 aircraft, helicopters of all types, NAD AA missile systems, and RUBEZH coastal missile system launchers on hand in the Polish Armed Forces.

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WARSAW PACT MEMBER STATES

CHIEF OF GENERAL STAFF,  
POLISH ARMED FORCES

General of the Army  
A. GRIBKOV,

12 January 1981

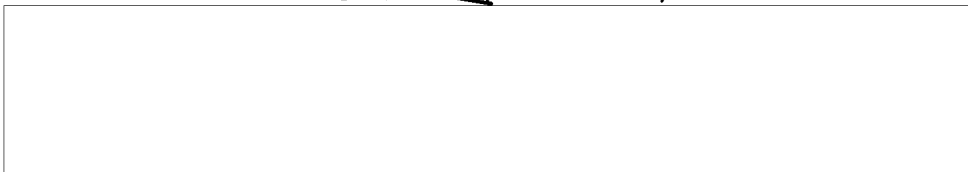
General of Arms  
F. SIWICKI

12 January 1981

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Attachment 4

MATERIEL RESERVES  
Established in the Polish Armed Forces  
for Army and Navy Forces Assigned to the  
Combined Armed Forces During 1981-1985.

By the end of 1985 the Polish Armed Forces are to have the following materiel reserves in support of combat operations of forces assigned to the Combined Armed Forces in wartime:

- |                                 |                  |
|---------------------------------|------------------|
| - ammunition for: Ground Forces | - for 25-60 days |
| National Air                    | - for 30-55 days |
| Defense Forces                  |                  |
| Air Force                       | - for 20-50 days |
| Navy                            | - for 45-90 days |
| - fuel                          | - for 90 days    |
| - food                          | - for 90 days    |

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Materiel means	Unit of measure	Amount of reserves by end of 1985	Remarks
1	2	3	4
<u>I. Missiles and Ammunition</u>			
<u>For the Ground Forces</u>			
- R-17 op-tac msl	Units	84	3 per 1chr
- LUNA-M tac msl	Units	172	4 per 1chr
- Small arms:	Unit of	3.5-7.0	
incl:	fire (UF)		
PG-7	UF	3.5	
PG-9	UF	5.0	
PG-15 for WBP-1	UF	6.0	
7.62-mm M-1943 rd	UF	4.0	
7.62-mm TT	UF	3.5	
12.7-mm AA rd	UF	6.8	
14.5-mm AA rd	UF	7.0	
- arty and mortar:	UF	2.5-8.6	
incl:			
PTP D-44 85-mm rd	UF	5.3	
120-mm mortar gren	UF	4.0	
122-mm M-1938 how rd	UF	4.0	
122-mm GVOZDIKA how rd	UF	5.5	
152-mm M-1937 how rd	UF	2.5	

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1	2	3	4
152-mm M-1943 how rd	UF	6.0	
- tank:	UF	4.0-8.6	
incl:			
125-mm T-72 tank rd	UF	4.0	
- missile	UF	1.9-3.1	
incl:			
122-mm BM-21 rd	UF	3.1	
140-mm BM-14 rd	UF	1.9	
- ATGM	UF	2.5	
- AA arty	UF	9.7	
incl:			
23-mm AA rd	UF	8.0	
- AA missiles	Units	3,960	
incl:			
KRUG-A	Units	162	6 per 1chr
KUB	Units	960	6 per 1chr
OSA-AK	Units	580	12 per 1chr
STRELA-1M	Units	180	12.8 per 1chr
STRELA-2M	Units	2,030	3 per 1chr 6 per ship
STRELA-10	Units	48	12 per 1chr
<u>For National Air</u> <u>Defense Forces</u>			
- AA missiles	Units	2,708	
incl:			
VEGA-E	Units	54	3 per 1chr

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1	2	3	4
VOLKHOV	Units	1,152	6 per lchr
NEVA	Units	125	7.8 per lchr
NEVA-M	Units	1,185	15.6 per lchr
DVINA	Units	192	8 per lchr
- guided missiles	UF	5.0-8.0	
- aerial bombs	UF	4.0	
- aviation ammunition	UF	14.0	
<u>For Air Force</u>			
- guided missiles	UF	4.0-9.5	
- unguided rockets	UF	5.0-8.5	
- aerial bombs	UF	4.0-9.0	
incl:			
for ftr-bmr avn	UF	9.0	
for ftr and recon avn	UF	4.0	
- aviation ammo	UF	7.0-17.0	
incl:			
NR-23 23-mm	UF	4.0	
<u>For ground forces avn</u>			
- unguided rockets	UF	4.0	
- ATGM for MI-2 (V-3), MI-24D	UF	3.5-5.0	

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1	2	3	4
- aviation ammo incl: 12.7-mm TKW-063 rd for MI-24D	UF	3.0-5.0	
	UF	3.0	
<u>For Navy</u>			
- naval missiles	Units	80	
incl: RZ-61	Units	16	16 per ship
P-15	Units	44	4 per cutter
P-21, P-22	Units	36	10 per cutter and 4 per RUBEZH 1chr
- torpedoes for sub, ASW ships, and torpedo cutters	UF	1.0	
- depth charges for Proj 912M ships	UF	4.0	
- naval ammo (arty)	UF	2.6-6.5	
incl: 130-mm rd	UF	2.6	
30-mm rd	UF	3.5	

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1	2	3	4
II. <u>Fuel</u>			
- motor veh gasoline	POL refill unit	13.0	
- diesel oil for tanks and motor veh	"	17.0	
- aviation fuel	"	50.0	
- aviation gasoline	"	50.0	
- diesel oil for Navy	"	5.0	
- ship mazut	"	6.3	
III. <u>Food</u>	daily	90	

NOTE: Degree of materiel supply up to the end of 1985 has been determined with consideration given to use of emergency reserve supplies. Calculations were made on the basis of minimal consumption norms.

CHIEF OF STAFF,  
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General of the Army  
A. GRIBKOV

12 January 1981

General of Arms  
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Attachment 5

LIST  
of Basic Projects for Preparation of Polish  
Peoples Republic Territory As Part of the Theater  
of Military Operations During the Period 1981-1985.

COMMAND POSTS

Continue construction of primary and alternate hardened command posts with radio transmission centers and improvement of existing command posts in tactical large units of the National Air Defense Forces, Air Force, and Navy.

COMMUNICATIONS

I. Taking into consideration the construction of the original network forming the interconnected comprehensive automated communications system (VAKSS) and expansion of the national communications network, continue to develop the "East-West" axial and the "North-South" lateral communication lines.

1. "East-West" axial cable communication lines:

- KALINGRAD, OLSZTYN, GDANSK, KOSZALIN, SZCZECIN, PASEWALK with SZCZECIN-ANGERMUENDE junction;

- GRODNO; BIALYSTOK, WARSAW, NASIELSK, SZUBIN, POZNAN, SREM, ZIELONA GORA, COTTBUS, with POZNAN, KORYTA, FRANKFURT/ODER junction;

- LVOV, RZESZOW, KRAKOW, KATOWICE, WROCLAW, LEGNICA, ZGORZELEC, GOERLITZ.

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2. "North-South" lateral cable communication lines:

- OLSZTYN, WARSAW, RADOM, LUBLIN, RZESZOW, KROSNO, PRESOV;
- KOSZALIN, BYDGOSZCZ, POZNAN, WROCLAW, KATOWICE, OSTRAVA.

3. Radiorelay communication lines:

- BREST, WARSAW, POZNAN, FRANKFURT/ODER;
- GDANSK, WARSAW, LODZ, KATOWICE, OSTRAVA.

4. The trunk lines of the established communications network and cable transit points at national borders are to have a channel capacity assuring assignment for military command needs on axial and lateral lines of up to 120 telephone channels, with the capability of expanding the axial lines to 180 channels by using reserves and restricting general purpose channels.

Along the entire length of each axial and lateral line continue preparations for high frequency transit of five to six 12-channel groups with the possibility of assigning them to network communications centers.

The quality of channels on axial and lateral lines, as well as their crossing of national borders, should conform to standards established by the International Advisory Committee for Telephony and Telegraphy.

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II. In order to establish and to improve in the period 1981-1985 the communications network:

1. In the process of establishing a Combined Armed Forces tropospheric communications network in the theater of military operations, construct on PPR territory stationary tropospheric communications stations in accordance with the approved project.

2. Establish a stationary multiple telegraph network on junctions of adjacent general staffs and the Main Staff.

3. Construct:

- large capacity cable communications trunk lines:
  - SREM, ZIELONA GORA, COTTBUS (complete);
  - WARSAW, BIALYSTOK, GRODNO;
- cable communications line OLSZTYN, GDANSK;
- hardened signal centers extended beyond city limits at points where axial and lateral lines cross in vicinity of the cities of WROCLAW, GDANSK, BIALYSTOK.

4. Equip the basic signal centers in conformity with technical requirements of the VAKSS project, giving consideration to equipping them totally with technical devices which would ensure transit allocations and rapid creation of bypasses.

Continue the efforts to increase the survivability of government communications network through improvement of existing extended [raised] signal centers as well as establishment of communications means reserves and their decentralized safekeeping.

Complete work connected with expanding the cable capacity of transit points at national borders in accordance with VAKSS standards in order to improve conditions for linking government communications networks.

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Plan utilization of civilian transmitters for military purposes. Conduct necessary organizational and technical projects so that preparation is made to deactivate in wartime civilian transmitters causing interference with military radioelectronic means.

#### RAILWAY LINES

1. Continue preparation of rail lines in ten transit routes to run trains 600m long (120 standard-rated axles) and weighing 1,500 tons on all transit routes, except No 3 and No 9, with the following daily traffic load:

No 1--KALININGRAD, BRANIEWO, ELBLAG, TCZEW, CHOJNICE, STARGARD, SZCZECIN--36 train pairs;

No 2--CHERNYAKHOVSK, SKANDAWA, OLSZTYN, ILAWA, GRUDZIADZ, CHOJNICE, then on route No 1--30 train pairs;

No 3--SESTOKAI, TRAKISZKI, SUWALKI, ELK, SZCZYTNO, OLSZTYN, ILAWA, TORUN, BYDGOSZCZ, KRZYŻ, STARGARD, GODKOW, SIEKIERKI--12 train pairs (train length--94 standard-rated axles, weight--1,000 tons);

No 4--GRODNO and VOLKOVYSK, BIALYSTOK, LAPY, OSTROLEKA, DZIALDOWO, TORUN, PILA, KOSTRZYN--48 train pairs (using a parallel sector of LAPY-TLUSZCZ-NASIELSK-SIERPC-TORUN and adjacent sector of TORUN-POZNAN);

No 5--VOLKOVYSK and BREST, CZEREMCHA, SIEDLCE, WARSAW, POZNAN, SLUBICE--60 train pairs;

No 6--BREST, GORA KALWARIA, LODZ, KALISZ, GLOGOW--60 train pairs, GLOGOW, ZIELONA GORA, GUBIN--30 train pairs (with consideration given to organizational projects), and GLOGOW, ZAGAN, ZASIEKI--30 train pairs;

No 7--Kovel, LUBLIN, DEBLIN, KIELCE, LUBLINIEC, OLESNICA, WROCLAW, LEGNICA, WEGLINIEC, ZGORZELEC (BIELAWA DOLNA)--54 train pairs (using a parallel sector LUBLINIEC-OPOLE-BRZEG-WROCLAW);

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No 8--LVOV, PRZEMYSL, TARNOW, KRAKOW, OSWIECIM, ZEBRZYDOWICE (CHALUPKI)--21 train pairs;

No 9--KHYROV, ZAGORZ, LUPKOW--21 train pairs (train length 110 standard-rated axles, weight 550-700 tons).

2. Prepare all approved routes, except No 9, for transit of trains with loads exceeding the clearance of 3,485 mm in width by 3,500 mm in height, and 2,600 mm in width by 4,670 mm in height (with the length of load equal to the length of the car).

3. Design projects leading to utilization of the 1,520-mm [wide gauge] HRUBIESZOW-KATOWICE rail line and its inclusion in the approved network of routes with establishment of three trans-loading points for European [standard-gauge] railroads.

4. In order to provide backup in wartime for the most important railroad bridges across the VISTULA, ODER, and NYSA LUZYCKA consider:

- the feasibility of establishing rail approaches to construction sites of temporary bridges across the NYSA LUZYCKA at GUBIN, LEKNICA, and JEDRZYCHOWICE, as well as retaining existing rail approaches across the VISTULA in the regions of KWIDZYN and DEBLIN, and across the ODER in the regions of SIEKIERKI, KOSTRZYN, and SLUBICE;

- assignment of forces and means to construct temporary bridges across the VISTULA (at KWIDZYN and DEBLIN) and the ODER (at SIEKIERKI) as well as to cooperate in building the floating rail bridge (at KWIDZYN) in case the existing bridge at TCZEW is destroyed.

5. Continue to prepare for and maintain readiness to deploy within 3 days temporary transloading areas capable of transloading no fewer than 18 trains per day in each area:

- on the VISTULA in the areas of KWIDZYN, GRUDZIADZ, TORUN, PLOCK, WARSAW, GORA KALWARIA, and DEBLIN;

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- on the ODER in the areas of GRYFINO, SIEKIERKI, KOSTRZYN, SLUBICE, GLOGOW, and WROCLAW.

In the temporary transloading areas of KWIDZYN, GORA KALWARIA, GRYFINO and SIEKIERKI provide the necessary forces and means to handle transloading of two or three dry cargo trains and two or three liquid fuel trains daily.

Each temporary transloading area is to have ferrying facilities or temporary highway bridges which would assure the required transloading capability and also is to provide one or two helicopter landing pads each with access roads.

Provide for the preparation of two temporary transloading areas on the NYSA LUZYCKA at GUBIN and ZGORZELEC (assignment of unloading stations and access facilities, and cooperation of military transport line units). Crossing support is provided by troops of the GDR National Peoples Army.

6. In case of destruction of the border transloading areas we should improve preparations and maintain alternate loading areas with a loading capacity of no less than 50 percent of the total heavy equipment trains approved for transloading from the USSR on Polish railroads.

7. Maintain and improve bypasses of rail junctions at: TCZEW, CHOJNICE, STARGARD (route No 1); OLSZTYN, ILAWA, GRUDZIADZ, TORUN, BYDGOSZCZ, NAKLO, PILA, POZNAN, KRZYZ, KOSTRZYN (routes No 2, 3, 4, 5); DEBLIN, LODZ, CZESTOCHOWA, LUBLINIEC, WROCLAW, LEGNICA, GLOGOW, ZAGAN (routes No 6 and 7); RZESZOW, TARNOW, KRAKOW, OSWIECIM (route No 8). Provide for greater traffic capacity on bypasses. Continue preparation of adjacent and distant bypasses.

8. Resupply and maintain in good technical operating condition rolling stock for transport of allied armed forces.

For transit of forces and materiel means of the Soviet Army maintain in the PPR rolling stock inventory, ready to place in the border transloading areas within the first 10 days, no fewer than 16,000 two-axle flatcars, 4,000 four-axle (six-axle)

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flatcars suitable for transportation of tanks, 3,500 tank cars (two-axle).

9. Continue to prepare and maintain the stationary and mobile rolling stock deactivation points as well as cleaning and scalding points for tank cars.

10. Implement projects pertaining to enhancement of the vitality of electrified rail sectors. Provide backup service for electric locomotives using automated traction means on specific railroad routes utilizing equipment sufficient to provide 50 percent of the present traffic capacity.

11. Continue to prepare railroad troop units and militarized units and to stockpile bridge assemblies and materiel for technical protection of the most important junctions and bridges in order to restore the flow of rail traffic through damaged junctions within a period no longer than five to six days, and to rebuild large bridges at a rate of 20-30 running meters per day.

Ensure dispersed storage of bridging and materiel reserves in areas of probable utilization and continue systematic replacement of obsolescent bridging.

#### HIGHWAYS

1. Continue preparation and improvements on twenty transit highways according to the following limits: pavement width--5.5-7.0 meters; horizontal arc radius--20-30 meters; and traffic capacity per day no fewer than 3,000-5,000 motor vehicles at the following routes:

No 1--GRONOWO, ELBLAG, SIEROWO, KOSCIERZYNA, BOBOLICE, SWIDWIN, PLOTY, GOLENIOW, South SZCZECIN, LINKEN;

No 2--GLEBOCK, ORNETA, PASLEK, DZIERZGON, MALBORK, STAROGARD GDANSKI, CHOJNICE, CZLUCHOW, CZARNE, SZCZECINEK, CZAPLINEK, STARGARD, KOBYLANKA, GARDNO, KOLBASKOWO (with utilization of the parallel stretch of CISZYNO-ORNETA);

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No 3--BARTOSZYCE, DOBRE MIASTO, MORAG, PRABUTY, GRUDZIADZ, SWIECIE, TUCHOLA, WIECBORK, WALCZ, RECZ (RECZ POMORSKI), CHOSZCZNO, DOLICE, PYRZYCE, SCHWEDT (using the existing parallel stretch of WIELEWO-BARTOSZYCE);

No 4--WIELEWO, BARCIANY, KETRZYN, BISKUPIEC, OLSZTYN, ILAWA, LASIN, RADZYN, CHELMNO, GRUCZNO, ZBRACHLIN, SEROCK, KORONOWO, NAKLO, PILA, CZLOPA, STRZELCE KRAJENSKIE, BARLINEK, LIPIANY, MYSLIBORZ, CHOJNA, CEDYNIA (using the existing parallel stretch of SOBIECHY-WEGORZEWO-KORSZE-JEZIORANY-OLSZTYN);

No 5--RAKOWICZE, AUGUSTOW, SZCZUCZYN, PISZ, STARE KIELBONKI, SZCZYTNO, NIDZICA, DZIALDOWO, LIDZBARK, BRODNICA, KOWALEWO, ZELGNO, CHELMZA, BYDGOSZCZ, SZUBIN, CHODZIEZ, WIELEN, GORZOW WIELKOPOLSKI, KOSTRZYN;

No 6--NOWY DWOR, DABROWA, GONIADZ, KOLNO, MYSZYNIC, CHORZELE, MLAWA, RYPIN, TORUN, GNIEWKOWO, ZNIN, WAGROWIEC, OBORNIKI, CHRZYPSKO WIELKIE, KWILCZ, SKWIERZYNA, SLONSK, GURZYCA;

No 7--KRYNKI, SUPRASL, BIALYSTOK, CHOROSZCZ, Southwest LOMZA, OSTROLEKA, MAKOW MAZOWIECKI, CIECHANOW, SIERPC, LIPNO, WLOCLAWEK, KRUSZWICA, GNIEZNO, POBIEDZISKA, POZNAN, PNIEWY, MIEDZYRZECZ, SLUBICE;

No 8--BOBROWNIKI, BIALYSTOK, WYSOKIE MAZOWIECKIE, OSTROW MAZOWIECKA, PULTUSK, PLONSK, PLOCK, KOWAL, CHODECZ, PRZEDECZ, SLESIN, WRZESNIA, SRODA, NOWY TOMYSL, SWIEBODZIN, RZEPIN, URAD;

No 9--BIALOWIEZA, HAJNOWKA, South BIELSK PODLASKI, BRANSK, BROK, PRZYJMY, WYSZKOW, NASIELSK, WYSZOGROD, SANNIKI, ZYCHLIN, KUTNO, KONIN, SREM, KOSCIAN, SULECHOW, KROSNO ORZANSKIE, GUBIN;

No 10--TOKARY, South SIEMIATYCZE, SOKOLOW PODLASKI, WEGROW, RADZYMIN, NOWY DWOR MAZOWIECKI, BLONIE, LOWICZ, UNIEJOW, RYCHWAL, WRONOW, JAROCIN, LESZNO, NOWA SOL, KOZUCHOW, LUBSKO, ZASIEKI;

No 11--TERESPOL, LUKOW, GORA KALWARIA, RAWA MAZOWIECKA, BRZEZINY, KOLONIA NIESULKOW, ZGIERZ, PODDEBICE, KALISZ, KROTOSZYN, GLOGOW, SZPROTAWA, ZARY, TRZEBIEL, BAD MUSKAU;

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No 12--SLAWATYCZE, RADZYN PODLASKI, DEBLIN, BIALOBRZEGI, TOMASZOW MAZOWIECKI, PABIANICE, SIERADZ, OLESNICA, SCINAWA, LUBIN, BOLESRAWIEC, ZGORZEC, GOERLITZ;

No 13--WOLKA OKOPSKA, CHELM, LUBLIN, PULAWY, RADOM, PIOTRKOW TRYBUNALSKI, KEPNO, RYCHTAL, BRZEG, South OLAWA, KATY WROCLAWSKIE, ZLOTORYJA, FRYDLANT;

No 14--HUSYNNE, South HRUBIESZOW, KRASNOSTAW, ZAKRZOWEK OSADA (ZAKRZOWEK), KRASNIK, ANNOPOL, STARACHOWICE, KONSKIE, RADOMSKO, KLUCZBORK, JELOWA, DOBRZYN WIELKI, LEWIN BRZESKI, DZIERZONIOW, SWIDNICA, JELENIA GORA, JABLONEC;

No 15--WITKOW, TOMASZOW LUBELSKI, MAJDAN, BILGORAJ, JANOW LUBELSKI, SANDOMIERZ, KIELCE, LOPUSZNO, South CZESTOCHOWA, LUBLINIEC, OPOLE ZABKOWICE SLASKIE, NOWA RUDA, BROUMOV;

No 16--HREBENNE, BELZEC, TARNOGROD, KRESZOW, JEZOWE, NAGNAJOW, JEDRZEJOW, KOZIEGLOWY, TOSZEK, KRAPKOWICE, NYSA, KLODZKO, South POLANICA, JAROMIERZ;

No 17--KROWICA HOLODOWSKA, LUBACZOW, LEZAJSK, MIELEC, SZCZUCIN, NOWY KORCZYN, WISLICA, MIECHOW, OLKUSZ, CHRZANOW, CHELMEK, RYBNIK, RACIBORZ, PRUDNIK, JESENIEK;

No 18--KRAKOWIEC, RADYMNO, RZESZOW, TARNOW, WIELICZKA, SKAWINA, ZATOR, PSZCZYNA, ZORY, WODZISLAW SLASKI, GLUCZYN;

No 19--MEDYKA, PRZEMYSL, DOMARADZ, STRYZOW, JASLO, BIECZ, GDOW, MYSLENICE, WADOWICE, KETY, BUJAKOW, BIELSKO-BIALA, CIESZYN;

No 20--KROSCIENKO, USTRZYKI DOLNE, SANOK, ZMIGROD, GORLICE, NOWY SACZ, RABKA, ZYWIEC, CZADCA.

Maintain the following five previously approved established highways, each with traffic capacity of 6,000 motor vehicles a day:

- KAPSUKAS, SUWALKI, OLSZTYN, TCZEW, PLOTY, KAMIEN POMORSKI, SWINOUJSCIE;

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- VOLKOVYSK, BIALYSTOK, CIECHANOW, BYDGOSZCZ, PILA, SZCZECIN, PODJUCHY;
- BREST, WARSAW, KUTNO, POZNAN, KOSTRZYN;
- USTILUG, CHELM, LUBLIN, PIOTRKOW TRYBUNALSKI, GLOGOW, GUBIN;
- KRAKOWIEC, JAROSLAW, KRAKOW, OPOLE, KATY WROCLAWSKIE, CHOJNOW, ZGORZELEC, with a branch to CHOJNOW, ZASIEKI.

2. Maintain and improve the following five lateral highways, each capable of handling up to 5,000 motor vehicles per day:

No 1--KAPSUKAS, SUWALKI, AUGUSTOW, SZCZUCZYN, LOMZA, SOKOLOW PODLASKI, LUKOW, LUBLIN, BILGORAJ, JAROSLAW, PRZEMYSL;

No 2--BAGRATIONOVSK, LIDZBARK WARMINSKI, OLSZTYN, MLAWA, PLONSK, WARSAW, GROJEC, RADOM, KIELCE, KRAKOW, CHYZNE;

No 3--GDYNIA, GDANSK, TCZEW, SWIECIE, BYDGOSZCZ, TORUN, WLOCLAWEK, KROSNIOWICE, LODZ, PIOTRKOW TRYBUNALSKI, CZESTOCHOWA, SOSNOWIEC, ZORY, SKOCZOW, CIESZYN;

No 4--USTKA, SLUPSK, MIASTKO, SZCZECINEK, PILA, POZNAN, LESZNO, WROCLAW, KLODZKO, MIEDZYLESIE;

No 5--KAMIEN POMORSKI, GOLENIOW, PYRZYCE, GORZOW WIELKOPOLSKI, SWIEBODZIN, KOZUCHOW, BOLESRAWIEC, JELENIA GORA, TRUTNOV.

3. Continue the work on approved highways aimed at raising the load capacity of bridges to 60 tons or preparing bypasses for transit of heavy and outsize equipment, as well as at constructing alternate grade-level crossings over railroad tracks in order to bypass viaducts with a maximum overhead clearance of less than 4.5 meters.

In order to provide for recommended traffic capacity on approved highway routes construct permanent overpasses and prepare for construction of portable folding overpasses in order

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to permit an unimpeded traffic flow, particularly in places where approved routes cross heavily traveled rail lines.

4. Maintain and improve highway border crossings in places designated in bilateral agreements with USSR, CSSR, and GDR.

5. In order to provide for wartime backup of highway bridges across the VISTULA and ODER rivers:

- maintain necessary reserve bridging and materiel, their decentralized storage in areas of their expected utilization as well as systematic replacement of obsolescent construction assemblies;

- draft project documentation and prepare road construction troops and militarized units for building backup bridges at approved locations.

6. Continue preparation and maintain in operational condition access roads to construction sites of backup bridges and ferry crossings over the VISTULA (24 sites), Oder (33 sites), and NYSA LUZYCKA (10 sites) approved during a joint reconnaissance of participating representatives of the USSR Armed Forces General Staff and the GDR National Peoples Army Main Staff in 1967.

7. Continue maintenance and improvement of existing bypasses around large cities and road junctions at: OSTRODA, CHELMZA, BYDGOSZCZ, PILA, SZCZECIN (routes 1-5); BIALYSTOK, WARSAW, PLONSK, LOWICZ, KUTNO, WLOCLAWEK, TORUN, KOLO, WRZESNIA, POZNAN, ZIELONA GORA (routes 6-10); TERESPOL, SANDOMIERZ, RADOM, KIELCE, LODZ, WROCLAW (routes 11-15); MIECHOW, KRAKOW, MYSLENICE (routes 16-20).

8. Continue preparation of road construction troops and militarized units to provide technical support for more important road junctions and highway bridges in order to restore traffic continuity through destroyed highway junctions after a lapse of time no greater than 5 to 6 days, and in order to rebuild bridges at a rate of 20 to 30 running meters per day.

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#### INLAND WATERWAYS

1. Improve the capacity of the VISTULA Bay-VISTULA-BYDGOSZCZ Canal-NOTEC River-WARTA River-to the ODER to handle ships of up to 400 tons inclusive.
2. Continue construction and preparation of river craft suitable for use in wartime, without supplementary equipment, for ferry crossings and temporary floating bridges on the VISTULA and ODER rivers.

#### MARITIME WATERWAYS

1. For basic tactical large units of the Navy provide one or two permanent basing points, two to four maneuver bases, and the requisite number of developed areas of dispersed ship berthing, supply points, and dispersed ship maintenance points (outside permanent base points).

At the GDYNIA, HEL, and SWINOUJSCIE permanent basing points, improve maintenance conditions, delivery of armaments and materiel, and training facilities. At the KOLOBRZEG, DARLOWO, and USTKA maneuver lease points provide for loading on ships of missiles, torpedoes, fuel, water, and food, as well as for emergency ship repairs.

The fishing ports of WLADYSLAWOWO, DZIWNOW, as well as SZCZECIN Bay should be prepared for dispersed basing of small surface vessels.

2. Continue to enlarge mooring lines and dredge the navigable waters of basing points, to prepare fairways, offshore vessel and ship anchorage areas, as well as areas for loading amphibious landing vessels.
3. In building new seagoing vessels provide them with cranes with a lifting capacity of no less than 40 tons and, if possible, with protection for troops and crews against weapons of mass destruction.

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Provide ships to transport a mechanized division in one trip.

4. Continue preparation of two alternate maritime transloading areas--Eastern (GDANSK-USTKA) and Western (KOLOBRZEG-SWINOUJSCIE) raising the total transloading capacity of each to 6,000 tons per day, including 2,000 tons of dry cargo and 4,000 tons of POL, with the use of port facilities.

5. Improve the stationary system of hydroacoustical observation. Replace obsolete Lot-M sets with new models.

6. Continue to improve the navigational safety system. Conduct jointly with the USSR Baltic Fleet and the GDR Navy oceanographic research and work to produce a uniform set of nautical charts to be used by the Warsaw Pact naval forces.

7. Continue work on engineer development of shelters for naval aircraft at airfields, and for installations, bases and ordinance dumps, and materiel and technical reserves.

8. Prepare and assemble forces and means for rebuilding the ports of GDANSK, GDYNIA, SZCZECIN, and SWINOUJSCIE.

AIR ROUTES,  
PREPARATION OF AIRFIELDS AND POSITIONS  
FOR NATIONAL AIR DEFENSE FORCES AND MEANS

1. For support of military transport aircraft and civilian aircraft engaged in military transport maintain and improve navigation along the following authorized air routes:

- VILNYUS, GRUDZIADZ, BYDGOSZCZ, FRANKFURT/ODER;
- VILNYUS, WARSAW, LODZ, WROCLAW, PRAGUE;
- BREST, WARSAW, LODZ, WROCLAW, PRAGUE;
- LVOV, KRAKOW, WROCLAW, GOERLITZ;
- SZCZECIN, SCHWERIN;

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- POZNAN, DRESDEN;
- KRAKOW, BRATISLAVA.

2. Maintain the approved airfields of WARSAW-OKECIE, POZNAN, KRAKOW, and WROCLAW in constant readiness to receive and expedite military transport aircraft, and also provide assigned forces and means for their maintenance and reconstruction.

The WARSAW-OKECIE airport is to maintain the newly established radio and radar flight control systems, 21 aircraft parking aprons and the approved minimum materiel and technical reserve supplies, i.e., no less than 600 tons of aviation fuel, mobile fuel distribution tanks with a total capacity of 200-250 tons, three to four aircraft starters, and 10-15 loading and unloading centers.

The POZNAN airport is to prepare to receive and expedite modern medium and heavy transport aircraft, to provide for them six parking aprons, and to have available at the airport radio and radar flight control systems.

3. In order to enhance maneuverability of front aviation, complete construction of the airfield at DRAWSKO, improve the existing base airfields and 21 highway airstrips so they may be utilized by combat aircraft. Investigate the possibility of further expansion of the air net.

4. Continue construction of hardened aircraft shelters at permanent base airfields to protect 45 to 50 percent of combat aircraft, including all new types of aircraft.

5. Modernize permanent base and alternate airfields of air units being reequipped with new types of combat aircraft.

Alternate airfields are to have headquarters, fuel reserves, ammunition to support combat operations of one squadron, and ground shelters (embankments) for one or two squadrons.

6. Provide alternate and dummy NAD AA missile battalion and radiotechnical subunit posts.

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LIQUID FUEL PIPELINES

Expand the permanent network of pipelines for refined products with consideration of delivery of fuel to the front, as well as organize its technical protection, designating for this purpose the necessary forces and stockpiling materiel.

Prepare connecting points for field pipelines with permanent pipelines at fuel dumps as well as fuel distribution points from permanent pipelines carrying refined products.

REAR SERVICES

1. Conduct work on efficient and dispersed location as well as effective protection of reserves. Raise the degree of security of previously stockpiled reserves.

Continue preparation of dumps and bases for mass distribution of materiel (fuel--600 tons into tank trucks in 2 hours and into barrels and cans loaded on motor vehicles--in 3 hours).

2. Maintain mobile military equipment spare parts reserves for various transport means in order to support transport of Combined Armed Forces personnel, including the wounded and sick.

3. Maintain railroad troop cars, equipment and weapons reserves and have in readiness personnel and rolling stock spare parts to form four temporary hospital trains.

4. Continue preparation and maintain the requisite number of auxiliary ships, coastal vessels and transport ships (tankers, water supply ships, floating repair shops, tugs, etc.) to support naval combat elements at roadsteads, maneuver bases, and dispersal points. In wartime have available special units for restoration of combat capability of ships.

GEODETTIC AND TOPOGRAPHIC SUPPORT

1. Continue work on further standardization of topographic and special maps and improvement of means and methods of their

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updating on the territory of Poland, and in areas (axes) of the theater of military operations, as defined in approved plans of the Combined Armed Forces.

2. Initiate serial publication of topographic maps on a scale of 1:500,000 and 1:1,000,000 with bilingual terminology (Russian and Polish).

3. Maintain a continuous exchange of revised astronomic and gravimetric data and of geodetic and cartographic materials on the territory of the states in the western theater of military operations.

CHIEF OF STAFF,  
COMBINED ARMED FORCES OF  
WARSAW PACT MEMBER STATES

CHIEF OF GENERAL STAFF,  
POLISH ARMED FORCES

General of the Army  
A. GRIBKOV

General of Arms  
F. SIWICKI

12 January 1981

12 January 1981

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